| Data | | |
|---|---|--------------------|
| Center of conrod bearing bore to | | 131.950 |
| center of conrod bushing bore | | 130.050 |
| Width of conrod at conrod bearing bore | | 27.890 |
| and conrod bushing bore | | 27.857 |
| Basic bore for conrod bearing shells | | 51.619 |
| | | 51.600 |
| | | 26.021 |
| Basic bore for conrod bushing | | 26.000 |
| Conrod bushing inside dia. | | 23.013 |
| | | 23.007 |
| Peak to valley height on inside of conrod bushing | | 0.004 |
| Permissible stagger of conrod bore to conrod bushing bore | | 0.1 |
| in reference to a length of 100 mm | | |
| Permissible difference in parallel between axes: | | |
| conrod bearing bore to conrod bushing bore in reference to a length of 100 mm | | dia. 0.015 |
| | | |
| Permissible deviation of conrod | | 0.020 |
| bearing bore from true | | |
| Permissible difference in weight of all | | 5 gr. |
| connecting rods of one engine | | <i>5</i> gr. |
| Tightening torque | | |
| Conrod nuts | Initial torque | 40–50 Nm |
| | Torque angle | 90100 ⁰ |
| Conventional tool | | |
| Connecting rod checking and straightening tool | Made by Krupp GmbH, 5309 Meckenheim e.g. Model CL 6 | |

Note

Connecting rods, which are overheated (blue discoloration) due to bearing damage, may not be re-used.

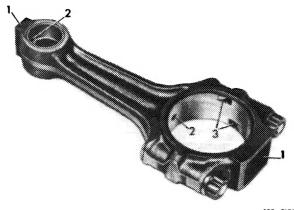
The connecting rod and its cap are marked to fit together. The connecting rod stem must not show cross scoring and notches.

Connecting rods with a machined conrod bushing are delivered as replacement parts.

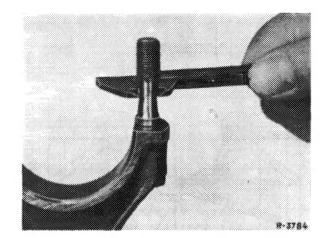
When renewing conrods pay attention to different weights of rods.

Repairing

1 Check conrod bolts and replace if necessary (03-310).



103-719



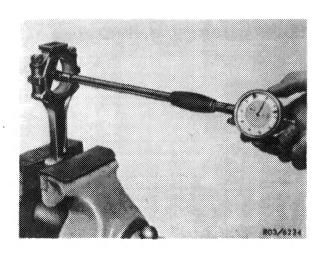
2 Check conrod bolt bores.

Place conrod cap on a conrod bolt. If the conrod cap moves down by its own weight, the connecting rod must be replaced.



103 - 923?

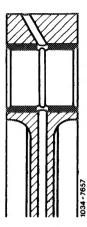
- 3 Mount connecting rod bearing cap and tighten to 40-50 Nm and $90-100^{\circ}$ angle of rotation torque.
- 4 Measure conrod bearing basic bore. If a basic bore exceeds the value of 51.62 mm or shows conicity, hone bearing surface of bearing cap on a surface plate up to max. 0.02 mm.



5 Press in new conrod bushing that oil bores match.

Installation pressure 2500 Nm.

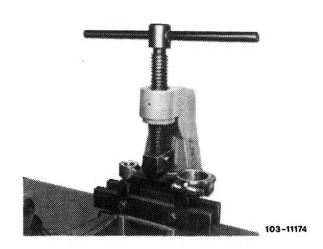
- 6 Mill or ream out conrod bushing.
- 7 Hone side bearing surfaces of connecting rod on a surface plate.



Squaring

8 Square connecting rod with a conrod tester.

9 Align parallel of conrod bore to conrod bushing bore.



10 Correct stagger of conrod bore to conrod bushing bore.

